

Claims:

1. A color filter comprising:
  - a transparent substrate;
  - a black matrix having an antireflection layer and a light-shielding layer successively formed on the transparent substrate, the antireflection layer comprises a first antireflection film having a first index of refraction, and a second antireflection film having a different second index of refraction; and
  - a color resin layer;wherein the black matrix defines a plurality apertures arranged in an array, the apertures being filled with the color resin layer, the color resin layer covering the black matrix entirely.
2. The color filter as claimed in claim 1, wherein the antireflection layer comprises chromium oxide and chromium nitride, and the light-shielding layer comprises chromium.
3. The color filter as claimed in claim 1, wherein the color resin layer comprises RGB (red, green, blue) resins.
4. The color filter as claimed in claim 3, wherein the RGB resins fill each three contiguous apertures respectively.
5. The color filter as claimed in claim 4, wherein a respective portion of each of

the RGB resins covers a corresponding portion of the black matrix.

6. The color filter as claimed in claim 4, wherein each two respective adjacent portions of each of the RGB resins cover a corresponding portion of the black matrix.
7. The color filter as claimed in claim 6, wherein said two respective adjacent portions are lapped on said corresponding portion of the black matrix.
8. The color filter as claimed in claim 6, wherein all said two respective adjacent portions cooperatively cover an entirety of the black matrix.
9. A liquid crystal display device comprising:
  - an electrode substrate; and
  - a color filter comprising:
    - a transparent substrate;
    - a black matrix formed on the transparent substrate; and
    - a color resin layer;wherein the black matrix defines a plurality of apertures arranged in array, the apertures are filled with the color resin layer, the color resin layer covers the black matrix entirely, the electrode substrate in combination with the color filter forms a cavity therebetween, and the cavity is filled with a liquid crystal layer.
10. A color filter comprising:

a transparent substrate;

a black matrix applied upon said transparent substrate, and each unit of said black matrix having an anti-reflection layer and a light shielding layer;

a color resin layer further applied to said transparent substrate and covering said black matrix; wherein

said color resin comprises RGB (red, green and blue) resins, and each unit is completely vertically covered by at least one of said RGB resins.